

Fractions - A

Multiple Choice

Identify the choice that best completes the statement or answers the question.

- ____ 1. Which of the following numbers is closest to 2?

$$1\frac{3}{4}, \frac{12}{5}, 2\frac{1}{8}, \frac{3}{2}$$

a. $\frac{1}{2}$

b. $1\frac{3}{4}$

c. $\frac{3}{2}$

d. $\frac{12}{5}$

- ____ 2. Which of the following numbers is closest to 0?

$$0.11, \frac{1}{4}, \frac{1}{10}, 0.2$$

a. $\frac{1}{10}$

b. 0.11

c. 0.2

d. $\frac{1}{4}$

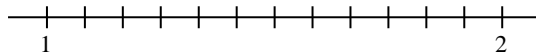
Short Answer

3. Use any method. Order the following numbers from least to greatest.

$$\frac{15}{4}, \frac{9}{4}, 1\frac{3}{4}, 3$$

4. Copy the number line. Use the number line to order the numbers from least to greatest.

$$\frac{7}{4}, \frac{17}{12}, \frac{1}{4}, \frac{2}{3}$$



5. Use any method. Order the following numbers from least to greatest.

$$\frac{5}{12}, \frac{1}{3}, \frac{13}{6}, \frac{7}{4}, 2$$

6. Use any method. Order the following numbers from greatest to least.

$$1\frac{5}{8}, \frac{7}{4}, 1.5, 1.875$$

7. Use equivalent fractions.

Order the numbers from least to greatest.

$$\frac{8}{3}, 3, \frac{11}{6}, 2\frac{1}{2}$$

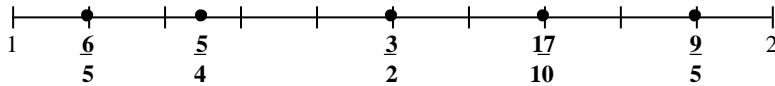
8. Use place value.

Order the numbers from greatest to least.

$\frac{3}{8}, \frac{9}{8}, \frac{3}{2}, \frac{2}{5}$

Problem

9. Identify the numbers that have been placed incorrectly.



10. Nathan, Zack and Bella each had the same amount of money.

Nathan spent $\frac{4}{5}$ of his money on books and $\frac{1}{10}$ on DVDs.

Zack spent $\frac{1}{4}$ of his money on books and $\frac{3}{4}$ on DVDs.

Bella spent $\frac{1}{10}$ of his money on books and $\frac{1}{2}$ on DVDs.

- Who spent the most on books? The least?
- Who spent the most on DVDs? The least?

11. Determine the number half-way between $\frac{3}{7}$ and $\frac{3}{5}$.

12. Determine the number half-way between 3.4 and 3.5.

Fractions - A Answer Section

MULTIPLE CHOICE

1. A
2. A

SHORT ANSWER

3. $1\frac{3}{4}, 4, 3, 1\frac{15}{4}$

4. $1\frac{1}{4}, 1\frac{17}{12}, 1\frac{2}{3}, 4$

5. $3\frac{1}{6}, 4, 3\frac{5}{12}, 2$

6. $1.875, 4\frac{7}{8}, 1\frac{5}{8}, 1.5$

7. $\frac{8}{3} = \frac{16}{6}; 3 = \frac{18}{6}; \frac{11}{6} = \frac{11}{6}; 2\frac{1}{2} = \frac{15}{6}$

From least to greatest: $\frac{11}{6}, 2\frac{1}{2}, 3, 3$

8. $1\frac{3}{8} = 1.375; \frac{9}{8} = 1.125; \frac{3}{2} = 1.5; 1\frac{2}{5} = 1.4$

From greatest to least: $\frac{3}{2}, 1\frac{2}{5}, 1\frac{3}{8}, \frac{9}{8}$

PROBLEM

9. $\frac{6}{5}, \frac{9}{5}$

10.

- a) For the books, express quantities as fractions with the same denominator, 20:

Nathan spent $\frac{16}{20}$

Zack spent $\frac{5}{20}$

Bella spent $\frac{2}{20}$

Nathan spent the most, Bella the least.

- b) For the DVDs, express each fraction with the same denominator, 20:

Nathan spent $\frac{2}{20}$

Zack spent $\frac{15}{20}$

Bella spent $\frac{10}{20}$

Zack spent the most, Nathan the least.

11. Use equivalent fractions.

$$\frac{3}{7} = \frac{15}{35}$$

$$\frac{3}{5} = \frac{21}{35}$$

Use a number line, or calculate the midpoint.

Midpoint: $\frac{18}{35}$

12. Use a number line from 3 to 4.

Mark 3.4 and 3.5 on the line and record the mid point, 3.45.